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PCT/EP2002/005328



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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Cas2018PCT/RN	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2002/005328	International filing date (day/month/year) 14 mai 2002 (14.05.2002)	Priority date (day/month/year) 14 mai 2001 (14.05.2001)
International Patent Classification (IPC) or national classification and IPC G06K 19/07		
Applicant EM MICROELECTRONIC-MARIN SA		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 5 sheets.

3. This report contains indications relating to the following items:

- I  Basis of the report
- II  Priority
- III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV  Lack of unity of invention
- V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI  Certain documents cited
- VII  Certain defects in the international application
- VIII  Certain observations on the international application

Date of submission of the demand 21 novembre 2002 (21.11.2002)	Date of completion of this report 29 August 2003 (29.08.2003)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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## I. Basis of the report

1. With regard to the elements of the international application:<sup>\*</sup>

the international application as originally filed  
 the description:

pages \_\_\_\_\_ 1-14 \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_ , filed with the demand  
 pages \_\_\_\_\_ , filed with the letter of \_\_\_\_\_

the claims:

pages \_\_\_\_\_ , as originally filed  
 pages \_\_\_\_\_ , as amended (together with any statement under Article 19  
 pages \_\_\_\_\_ , filed with the demand

pages \_\_\_\_\_ 1-10 \_\_\_\_\_, filed with the letter of 11 March 2003 (11.03.2003)

the drawings:

pages \_\_\_\_\_ 1/5-5/5 \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_ , filed with the demand

the sequence listing part of the description:

pages \_\_\_\_\_ , as originally filed  
 pages \_\_\_\_\_ , filed with the demand  
 pages \_\_\_\_\_ , filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  
 the language of publication of the international application (under Rule 48.3(b)).  
 the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in written form.  
 filed together with the international application in computer readable form.  
 furnished subsequently to this Authority in written form.  
 furnished subsequently to this Authority in computer readable form.  
 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
 The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4.  The amendments have resulted in the cancellation of:

the description, pages \_\_\_\_\_  
 the claims, Nos. \_\_\_\_\_  
 the drawings, sheets/fig \_\_\_\_\_

5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

## 2. Citations and explanations

**Reference is made to the following documents:**

D1: WO 00 67208 A (CARDINTELL KNOW HOW S A; LEBET JEAN PHILIPPE (CH); FAVRE EMMANUEL) 9 November 2000 (2000-11-09)

D2: WO 92 08148 A (WESTINGHOUSE ELECTRIC CORP) 14 May 1992 (1992-05-14)

1. The present invention relates to a system for detecting people or objects in a plurality of defined spaces each having at least one entrance.
  
2. Document D1, which is considered to be the closest prior art, describes a system for detecting people or objects according to the preamble of Claim 1. Specifically, D1 describes a system and method in which electronic tickets (electronic units; "tags") are managed by a reader on board a vehicle. The system has two operating modes, in particular a first standby mode and a second active mode in which the tag can transmit and receive data at a high frequency. The transition from one mode to the other is achieved when the reader transmits a specific command frame.

3. Document D2 describes an electronic identification system including at least one electronic unit ("electronic identification tag"), in particular provided with RF transmission means for transmitting electronic unit identification data in response to the reception of an external interrogation signal, and for periodically transmitting a positioning signal ("beacon signal") with the identification data of the electronic unit when no external interrogation signal is received. In particular, this document describes a first identification mode and a second "burst" transmission mode, where the latter is powered by the ferrite antenna (before leaving the entrance area, i.e. before the "burst" transmission mode is automatically powered by the battery).
4. The invention disclosed in the present application differs from the teaching of D1 and D2 in that: the system is expected to operate in at least two separate operating modes in which the electronic units communicate with the high-frequency transceiver means, and the low-frequency electromagnetic signal transmitted by the low-frequency transmission means comprises mode selection information indicating which of said at least two operating modes must be used by the electronic units when passing through an entrance to a defined space.
5. Neither document D1 nor document D2 discloses a mode selection process as claimed. On the contrary, each of said documents presents a solution that involves prior awareness of the operating mode that must be

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used; D1 mentions only a single active operating mode, while D2 discloses two successive operating modes that can therefore be equated with a single operating mode.

6. Therefore, the subject matter of Claim 1 is considered to be novel and to involve an inventive step (PCT Article 33(2) and (3)).
7. The subject matter of Claims 2-7 concerns specific embodiments of the system of Claim 1. Therefore, the subject matter of Claims 2-7 is considered to be novel and to involve an inventive step (PCT Article 33(2) and (3)).
8. Claim 8 relates to a method for detecting a person or an object in a detection system according to any one of Claims 3 to 5. Therefore, the subject matter of Claim 8 is considered to be novel and to involve an inventive step (PCT Article 33(2) and (3)).
9. The subject matter of Claims 9 and 10 concerns specific embodiments of the method of Claim 8. Therefore, the subject matter of Claims 9 and 10 is considered to be novel and to involve an inventive step (PCT Article 33(2) and (3)).